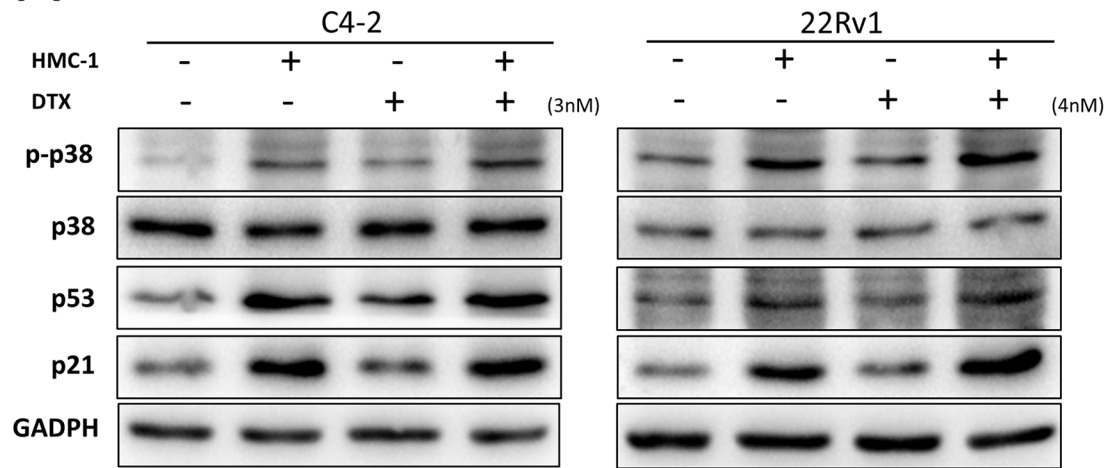
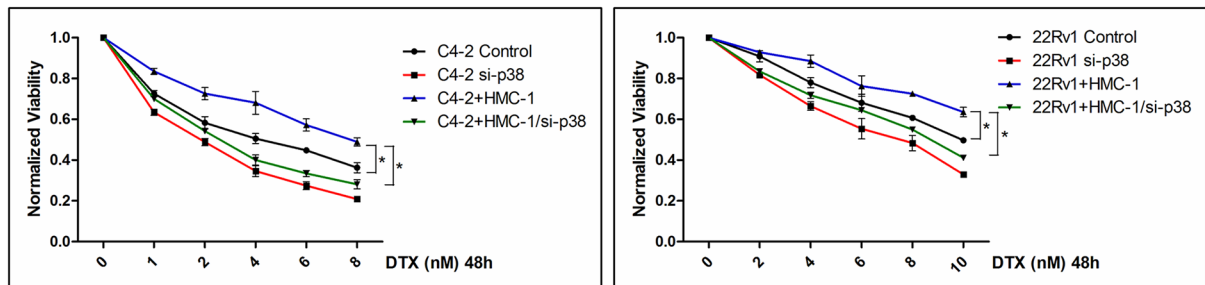


## SUPPLEMENTARY FIGURES

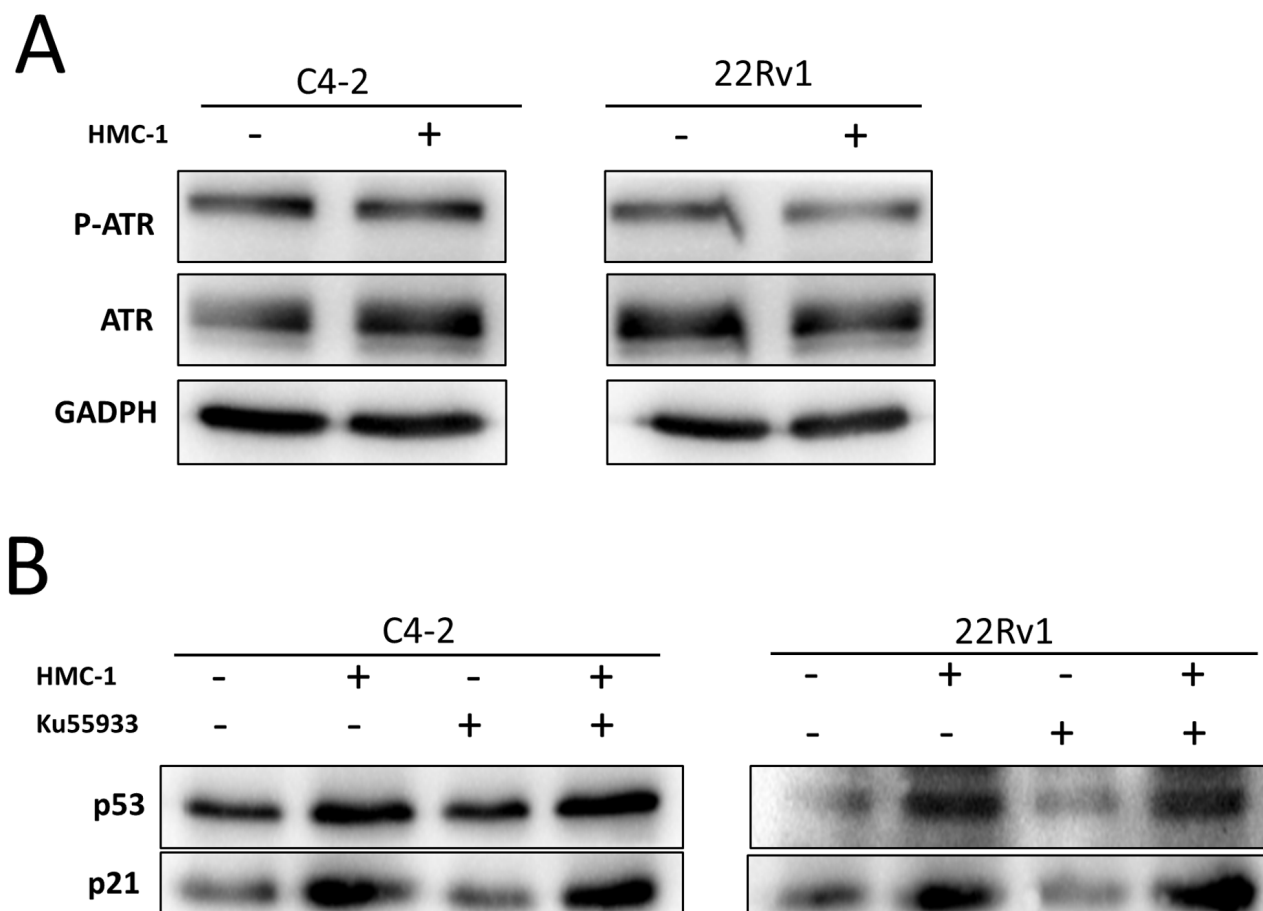
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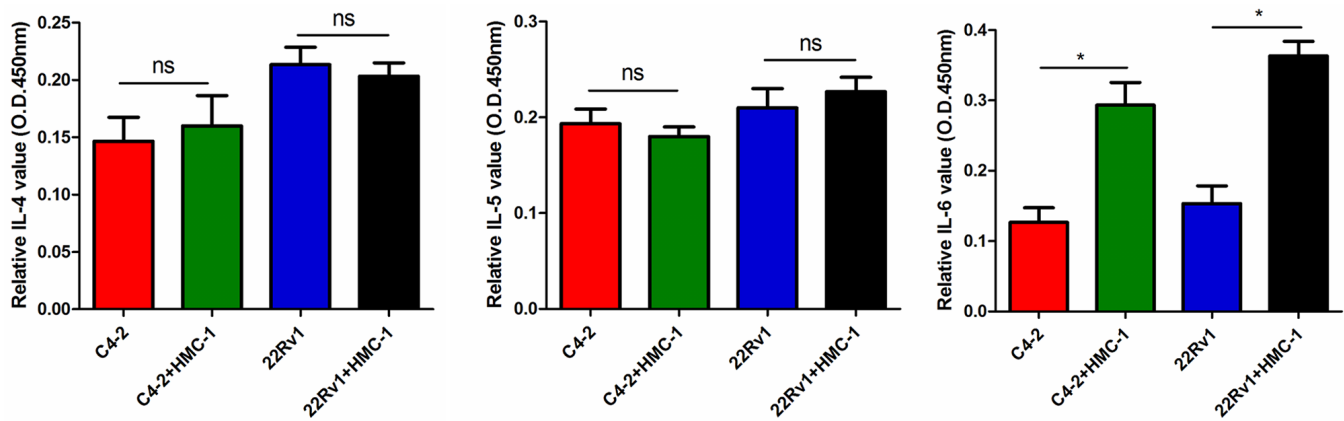
B



**Supplementary Figure S1: Mechanism why recruited mast cells can alter PCa cell chemotherapy sensitivity.** A. PCa C4-2 and CWR22Rv1(22Rv1) cells show increased expression of p-p38, p53 and p21 after co-culture with mast cells in the present of DTX. B. Targeting p38 with p38 si-RNA can interrupt mast cell-induced docetaxel resistance.



**Supplementary Figure S2: Effect of mast cells and ATM kinase inhibitor on the downstream gene expression. A.** Mast cells have no effect on phosphorylation of ATR in both C4-2 and CWR22Rv1 (22Rv1) cells. **B.** Expression of p-p38, p53 and p21 after co-culture with mast cells in the presence of ATM kinase inhibitor.



**Supplementary Figure S3: Screen of mast cells secreted cytokines potentially affecting p38 signal.** Detection of the IL-4, IL-5 and IL-6 expression in the medium of prostate cancer cells with or without co-culture with mast cells.